



FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	
LIST OF PRIOR ART CITED BY APPLICANT  (Use several sheets if necessary)		ATTY. DOCKET NO.: 500.1004 CON/RCE	
SERIAL NO.: 09/621,574		APPLICANT(S): CEVC, Gregor	
FILING DATE: July 21, 2000		GROUP:	

  

U.S. PATENT DOCUMENTS												
**EXAMINER INITIAL	CLASS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
<i>h</i>	AA	4 9 5 4 3 4 5	9/4/90	Müller								
	AB	*4 9 3 7 0 7 8	6/26/90	Mezel, et al.								
	AC	*4 9 2 1 7 0 6	5/1/90	Roberts, et al.								
	AD	*4 9 1 1 9 2 8	3/27/90	Wallach								

  

FOREIGN PATENT DOCUMENTS												
	CLASS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION					
							YES	NO				
<i>h</i>	AE	0 0 2 4 3 7 7	05/04/00	WO	A61K	9/127						
	AF	0 0 1 2 0 6 0	03/09/00	WO	A61K	9/127						
	AG	*9 8 3 3 4 8 3	8/6/98	WO								
	AH	*2 0 5 2 1 6 4	9/26/92	Canada								
	AJ	*0 4 7 5 1 6 0	03/18/92	EP	A61K	9/127						
	AJ	*9 2 0 3 1 2 2	03/05/92	WP								
	AK	*9 2 0 3 1 2 2	3/5/92	WO								
	AL	*WO 88 0 7 3 6 2	10/6/88	PCT								
	AM	*0 2 8 0 4 9 2	8/31/88	Europe								
	AN	*9 8 1 7 2 5 5	4/30/88	WO								
	AO	*3 7 1 3 4 9 4	10/29/87	Germany								
	AP	*0 2 2 0 7 9 7	5/6/87	Europe								
	AQ	*WO 87 0 1 9 3 8	4/9/87	PCT								
	AR	*0 2 1 1 6 4 7	2/25/87	Europe								
	AS	*0 1 0 2 3 2 4	3/7/84	Europe								
	AT	*3 0 1 6 9 7 6	11/13/80	Germany								

  

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
<i>h</i>	AU *V.M. Knepp et al., "CONTROLLED DRUG RELEASE FROM A NOVEL LIPOSOMAL DELIVERY SYSTEM. II. TRANSDERMAL DELIVERY CHARACTERISTICS", Journal of Controlled Release 12 (1990) March, No. 1, Amsterdam, NL, pp. 25-30.
	AV *C.E. Price, "A REVIEW OF THE FACTORS INFLUENCING THE PENETRATION OF PESTICIDES THROUGH PLANT LEAVES" on I.C.I. Ltd., Plant Protection Division, Jealott's Hill Research Station, Bracknell, Berkshire RG12 6EY, U.K., pp. 237-252.
	AW *K. Karzel and R.K. Liedtke, "MECHANISMEN TRANSKUTANER RESORPTION" on Grandlagen/Basics, pp. 1487-1491.
	AX *Search Report for PCT/EP91/01596.
	AY *Michael Mezel, LIPOSOMES AS A SKIN DRUG DELIVERY SYSTEM" 1985 Elsevier Science Publishers B.V. (Biomedical Division), pp 345-358.
<i>h</i>	AZ *Adrienn Gesztes and Michael Mezel, "TOPICAL ANESTHESIA OF THE SKIN BY LIPOSOME-ENCAPSULATED TETRACAINE" on Anesth Analg 1988; 67: pp 1079-81.

  

EXAMINER <i>Kuh</i>	DATE CONSIDERED 3/05
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\*U.S. Patents, foreign publications and other documents designated with a star have been previously filed in the U.S. Patent Office in U.S. Patent No. 6,165,500 to Cevc and related applications.  
 \*\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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la		6	1	6	5	5	0	0	12/26/00	Cevc				
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER				DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION				
										YES	NO			
la	BB	*4	4	4	7	2	8	7	11/7/96	Germany	A61K	9/127	Abstract	
	BC	*0	7	0	7	8	4	7	4/24/96	Europe	A61K	9/127	Abstract	
	BD	*0	7	0	4	2	0	6	4/3/96	Europe	A61K	9/127	Abstract	
	BE	*0	4	7	5	1	6	0	3/18/92	Europe	A61K	9/127	Abstract	
	BF	1	2	8	9	4	2	0	09/24/91	Canada	A61K	9/50		
la	BG	9	0	0	9	7	8	2	7/7/90	WO	A61K	9/127		
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
la	BH	*Harish M. Patel, "LIPOSOMES AS A CONTROLLED-RELEASE SYSTEM" on Biomedical Society Transactions 609 <sup>th</sup> Meeting, Leeds, pp 513-516.												
	BI	*Philip G. Green, et al., "IN VITRO AND IN VIVO ENHANCEMENT OF SKIN PERMEATION WITH OLEIC AND LAURIC ACIDS" on International Journal of Pharmaceutics, 48 (1988), pp 103-111.												
	BJ	*Guia M. Golden et al., "ROLE OF STRATUM CORNEUM LIPID FLUIDITY IN TRANSDERMAL DRUG FLUX" on Journal of Pharmaceutical Sciences Vol. 76, No. 1, January 1987, American Pharmaceutical Association, pp 25-28.												
	BK	*Bruce J. Aungst et al., "ENHANCEMENT OF NALOXONE PENETRATION THROUGH HUMAN SKIN IN VITRO USING FATTY ACIDS, FATTY ALCOHOLS, SURFACTANTS, SULFOXIDES AND AMIDES" on International Journal of Pharmaceutics, 33 (1986), pp 225-234.												
	BL	*Ronald R. Burnette et al., "CHARACTERIZATION OF THE PERMESELECTIVE PROPERTIES OF EXCISED HUMAN SKIN DURING LONTOPHORESIS" on Journal of Pharmaceutical Sciences Vol. 76, No. 10, October 1987, American Pharmaceutical Association, pp 765-773.												
	BM	*E.C. Katoulis et al., "EFFICACY OF A NEW NEEDLELESS INSULIN DELIVERY SYSTEM MONITORING OF BLOOD GLUCOSE FLUCTUATIONS AND FREE INSULIN LEVELS" on International Journal of Artificial Organs Vol. 12, No. 5, 1989, pp 333-338.												
	BN	*Ovais Siddiqui et al., "NONPARENTERAL ADMINISTRATION OF PEPTIDE AND PROTEIN DRUGS" on CRC Critical Reviews in Therapeutic Drug Carrier Systems, Volume 3, Issue 3, pp 195-208.												
	BO	*Abstract searched from Derwent World Patents Index Latest.												
	BP	*Cevc, G. et al., "Ultraflexible vesicles, Transfersomes, have an extremely low pore penetration resistance and transport therapeutic amounts of insulin across the intact mammalian skin", <i>Biochimica et Biophysica Acta</i> , 1368 pp. 201-215 (1998).												
	BQ	*Cevc, G., "Material Transport Across Permeability Barriers by Means of Lipid Vesicles", <i>Handbook of Biological Physics</i> , Vol. 1, pp. 465-490 (1995).												
	BR	*Mayer, L.D. et al., "Vesicles of variable sizes produced by a rapid extrusion procedure", <i>Biochimica et Biophysica Acta</i> , 858 pp. 161-165 (1986).												
	BS	*Patel, H.M. et al., "ORAL ADMINISTRATION OF INSULIN BY ENCAPSULATION WITHIN LIPOSOMES", <i>FEBS LETTERS</i> , 62(1):60-63 (February 1976).												
	BT	Schreier, H. "Liposomes - A Novel Drug Carrier, I. Phospholipids; Production and Characterization of Liposomes; II. Destiny of liposomes in vivo; use in therapy", <i>Pharmazie in unserer Zeit</i> , No. 4 (1982).												
	BU	Beyer, C. et al., "Micro Emulsions" <i>Pharmazie in unserer Zeit</i> , No. 2 (1983).												
la	BV	Lichtenberg, D. et al., "SOLUBILIZATION OF PHOSPHOLIPIDS BY DETERGENTS STRUCTURAL AND KINETIC ASPECTS" <i>Biochimica et Biophysica Acta</i> , 737 pp. 285-304 (1983).												
EXAMINER		la				DATE CONSIDERED		3/05						
<p>*U.S. Patents, foreign publications and other documents designated with a star have been previously filed in the U.S. Patent Office in U.S. Patent No. 6,165,500 to Cevc and related applications.</p> <p>**EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>														

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							YES	NO	
h		CB 9 1 0 4 0 1 3	04/04/91	WO	A61K	9/127			
		CC 9 2 0 5 7 7 1	04/16/92	WO	A61K	9/127			
		CD 9 3 1 9 7 3 6	10/14/93	WO	A61K	9/127			
		CE 9 3 1 9 7 3 7	10/14/93	WO	A61K	9/127			
		CF 9 0 0 9 7 8 2	09/07/90	WO	A61K	9/127			
		CG 0 2 2 4 8 3 7	11/24/86	EP	A61K	9/127			
h		CH 1 7 4 0 2 8 3	07/28/83	AU	A61K	9/10			

  

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
EXAMINER INITIAL	CA	Lasch, J. et al., "Interactions of external lipids (lipid vesicles) with the skin" <i>Journal of Liposome Research</i> , 5(3) pp. 543-569 (1995).
h		Berger, M. "Oral Insulin 1922-1992: The History of Continuous Ambition and Failure" <i>Heinrich-Heine-University, Dusseldorf, Germany</i>
		Cevc, G. et al., "The skin: a pathway for systemic treatment with patches and lipid-based agent carriers" <i>Advanced Drug Delivery Reviews</i> 18 pp. 349-378 (1996).
		Benner, K., "The Human Body, The Wonderwork of the Human Body, Structure, Functions, Interactions, Processes and Mechanisms" <i>Weltbild GmbH Augsburg</i> (1995)
		SERVA FEINBIOCHEMICA FUR FORSCHUNG for SERVA Feinbiochemica GmbH & Co. (1986/1987)
		Fluka Ika-BioChemika Catalogue 16 (1988/89)
		Fieser, L.F. et al., "Organic Chemistry" <i>Hans Ruprecht Hensel, 2nd revised edition, Verlag Chemie GmbH, Weinheim/Bergstr.</i> (1968)
		A. Helenius et al., "Solubilization of Membranes by Detergents" <i>Biochimica et Biophysica Acta</i> , 415 pp. 29-79 (1975).
		Jackson, M.L. et al., "Solubilization of Phosphatidylcholine Bilayers by Octyl Glucoside" <i>Biochemistry</i> 21 pp. 4576-4582 (1982).
		Vinson, P.K. et al., "Vesicle-micelle transition of phosphatidylcholine and octyl glucoside elucidated by cryo-transmission electron microscopy" <i>Biophysical Journal</i> Volume 56 pp. 669-681 (1989).
		Edwards, K., "Effects of Triton X-100 on Sonicated Lecithin Vesicles" <i>Langmuir</i> Vol.5 No. 2 pp.473-478 (1989).
		Brendzel, A.M., "EFFECTS OF LIPID-SOLUBLE SUBSTANCES ON THE THERMOTROPIC PROPERTIES OF LIPOSOME FILTRATION" <i>Biochimica et Biophysica Acta</i> , 601 pp. 260-270 (1980).
h		Roeding, J., "Liposomes and Niosomes in Pharmacy and Cosmetics State of the Art Prospects, Techniques of Visualizing Vesicular Systems, Interaction of Liposomes with the Skin" <i>Training Course No. 105 from May 14 to 16, 1990, MARITIM Hotel Nurnberg, Frauenlorgaben 11, 8500 Nurnberg.</i>

  

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
for	DB	0 4 7 5 1 6 0 A1	08/23/91	EP	A61K	9/127	
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	DD	0 0 1 2 0 6 0	03/09/00	WO	A61K	9/127	
	DE	0 0 2 4 3 7 7	05/04/00	WO	A61K	9/127	
	DF	9 2 0 3 1 2 2	03/05/92	WO	A61K	9/127	
for	DG	*0 0 3 8 6 5 3	07/06/00	WO			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
for	DH	Attachment filed by Opponent - November 13, 1996 (Exhibit C)					
	DI	Patentee's Response to Opposition Request - April 21, 1997 (Exhibit D)					
	DJ	Patentee Communication to the EPO - May 22, 1998 (Exhibit E)					
	DK	Opponent's Response - May 22, 1998 (Exhibit F)					
	DL	Decision of EP Opposition Division - July 30, 1998 (Exhibit G)					
	DM	Appeal by Opponent - December 4, 1998 (Exhibit H)					
	DN	Response by Patentee - April 19, 1999 (Exhibit I)					
	DO	*G. Blume and G. Cevc, <u>Drug-Carrier and Stability Properties of The Long-Lived Lipid Vesicles, Cryoplasomes, In Vitro and In Vivo</u> , Journal of Liposome Research, 2(3), 355-368 (1992).					
for	DP	John M. Clark, Jr.: <u>Experimental Biochemistry</u> ; Biochemistry Division, Department of Chemistry; University of Illinois, pgs. 47-48					
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